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|--|---|---|--------------------------------|
| | Application No. | Applicant(s) | () |
| • | 09/841,282 | MOCHIZUKI, NOI | RITAKA |
| Notice of Allowability | Examiner | Art Unit | |
| | Timothy J Thompson | 2873 | |
| The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in or other appropriate communication is sufficient to the communication of the communication is sufficient to the communication of the | this application. If not inclu nication will be mailed in du | uded ue course. THIS |
| 1. This communication is responsive to an amendment filed of | on 5/27/05. | | |
| 2. The allowed claim(s) is/are 1,2,4,6,7,10,11,36 and 39-43. | | | |
| 3. The drawings filed on 24 April 2001 are accepted by the Ex | xaminer. | | |
| 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must | e been received. The been received in Application cuments have been received of this communication to file at the length of this application. The been received in Application at the length of this application. | No in this national stage appli a reply complying with the | requirements |
| (a) ☐ including changes required by the Notice of Draftspers | | (PTO-948) attached | |
| 1) hereto or 2) to Paper No./Mail Date | _ | • | |
| (b) including changes required by the attached Examiner's Paper No./Mail Date | s Amendment / Comment or i | n the Office action of | |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t | 7 77 | <u> </u> | the back) of |
| 7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT | | | I. Note the |
| Attachment(s) | | | |
| 1. Notice of References Cited (PTO-892) | | ormal Patent Application (F | PTO-152) |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. ⊠ Interview Su Paper No./N | mmary (PTO-413), ⁄Iail Date <u><i>06/2005</i></u> . | |
| 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date | <u> </u> | Amendment/Comment | |
| 4. Examiner's Comment Regarding Requirement for Deposit | 8. 🛛 Examiner's S | Statement of Reasons for A | Allowance |

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

of Biological Material

9. Other ____.

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DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Sungho Hong on 6/22/2005.

The application has been amended as follows:

-- Claims 36 and 39 have been canceled

40(currently amended): The projection apparatus according to claim 39, further comprising:

an optical modulation element that includes a plurality of reflecting surfaces and a plurality or piezoelectric elements configured to control the height of corresponding reflecting surfaces so that the reflecting surfaces form a reflective diffraction grating which generates diffraction light on the basis of incident light, wherein the intensity of light reflected and diffracted by said reflective diffraction grating is adjusted by adjusting a voltage to be impressed to the piezoelectric element;

a projection optical system for projecting light from said optical modulation

element; and a stopper for shielding light reflected without being diffracted in said optical modulation element.

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Allowable Subject Matter

Claims 1, 2, 4, 6, 7, 10, 11, 40-43 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art taken either singularity or in combination fails to anticipate or fairly suggest the limitations of the dependant claim, in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper. The prior art fails to teach a combination of all the claimed features as presented in independent claims 1, 36, with the allowable feature being the plurality of elements are respectively provided with piezoelectric element where the polarities of the electric fields of which are alternately different from each other(claim 1); wherein the intensity of light reflected and diffracted by said reflective diffraction grating is adjusted by adjusting a voltage to be impressed to the piezoelectric element; a projection system for projecting light from said optical modulation element; and a stopper for shielding light reflected without being diffracted in said optical modulation element(claim 40). Therefore claims 1, 2, 4, 6, 7, 10, 11, 40-43 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Thompson whose telephone number is (571) 272-2342. If the examiner can not be reached his supervisor, Georgia Epps, can be reached on (571) 272-2328.

TIMOTHY THOMPSON PRIMARY EXAMINER